



DYNOMINER[®] Advance

Bulk Explosives Delivery Equipment

TECHNICAL SPECIFICATION

DYNOMINER Advance	OPTION 1	OPTION 2
Emulsion Tank - L	600 ^a	2.800 ^a
Water Tank - L	40	300
Trace Chemical Tanks - L	8	50
Dimensions - W x L x H	1.3 x 2.2 x 1.6 m	1.8 x 3.15 x 1.9 m
Empty Weight - ton	1.6	2.2
Pump Work Pressure	6 - 8 bar	
Emulsion flow rate	50 kg per minute	
Built-in replaceable battery for power supply		
Wilden Pump to emulsion		
Antistatic semi-flexible PVC charging hose ^b 3/4" -30meters		
PLC and remoted control systems		
Up to 50 kg/min Emulsion Chargin Capacity		
Charging horizontal and low-angle blast holes. ^c		
Hose cage up to 50m hose		

- a. Rough
- b. Inner diameter 19 mm, outhter diameter 25 mm
- c. With 42-65 mm diameters, and downholes with 42-114 mm diameter.

PRODUCT DESCRIPTION

DYNOMINER[®] Advance enables efficient high-volume bulk explosive loading at, making it suitable for diverse underground construction, quarrying, and mining environments.

- Engineered specifically for development applications
- Intuitive, user-friendly operation with remote control capability
- Available as a stand-alone air-operated unit configuration compatible with most OEM carriers
- Offers gassing functionality.



- Its compact structure enables installation on various underground carriers, making it ideal for drifts with 5 m x 5 m or larger profiles.
- Utilizes a low-pressure membrane pump. The absence of moving components provides high safety, reduced failure risk, and minimal maintenance requirements.
- Operates using the mine's compressed air supply, with an option to integrate an auxiliary compressor when required, increasing operational flexibility and efficiency.
- Due to its straightforward design, operator training is completed quickly.
- The low noise level during charging contributes to a user-friendly operating environment.



Product Disclaimer: Please see reverse side.



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PROPERTIES

NOBELEX[®] Titan UG

Density (g/cm ³)	1.04 - 1.26
Energy (MJ/kg)	2,70
Gas Volume (lt/kg)	1044
Detonation Temperature	2069 °C
V.O.D. (m/s)	5000 ^a
Water Resistance	Excellent
Shelf Life	6 Months
Extreme Temp.	-10 °C / +40 °C

a. 38 mm PVC Pipe

* All values may vary by + %3

HAZARDOUS SHIPPING DESCRIPTION

Explosive, Blasting, Type E, 1.1.D UN 0241



Explosive, Blasting, Type E, 1.5.D UN 0332



APPLICATION RECOMMENDATIONS

- **ALWAYS** use NOBELEX[®] Titan UG as the main charge for underground blasts in metal mining, tunnel development, and all 42–89 mm borehole applications.

- **ALWAYS** deliver the bulk emulsion in IBC containers and transfer it to the DYNOMINER[®] Advance using the approved mobile pump.

- **ALWAYS** utilize bulk emulsion charging systems to achieve full borehole wall contact and eliminate voids that compromise detonation energy transmission.

- **ALWAYS** employ mechanized loading equipment to reduce charging time to 20–30 minutes, improving cycle efficiency and increasing overall development advance rates.

- **ALWAYS** review and optimize drill-and-blast designs when switching to bulk emulsion, as enhanced loading continuity enables reduced hole density and measurable savings in drilling costs.

- **NEVER** use cartridge sensitized emulsions in situations requiring high blast efficiency; cartridge-to-wall gaps create an air-cushioning effect that absorbs shock energy and decreases overall performance.

- **NEVER** disregard the potential for cartridge displacement caused by shock waves from preceding holes; such movement may produce column discontinuities, inter-cartridge gaps, or complete ejection, compromising blast integrity.

- **NEVER** ignore the risk of unexploded cartridges remaining in the muckpile; these occurrences represent a critical safety hazard and disrupt subsequent loading and hauling operations.

- **NEVER** rely on manual or cartridge charging methods when operational cycle time is a priority; typical loading durations of 45–60 minutes significantly reduce development productivity.

ADDITIONAL INFORMATION – Visit nitromak.com

or dynonobel.com for Brochures and Case Studies related to this product.

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